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10/685,252	10/14/2003	Douglas G. Balazich	POU920030156US1 3991	
46369 759 HESLIN ROTHE	90 01/25/2008 NBERG FARLEY & M	EXAMINER		
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ALBANY, NY 12203 .		•	ART UNIT	PAPER NUMBER
	,		2619	
			MAIL DATE	DELIVERY MODE
•		•	01/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No) .	Applicant(s)
Office Action Summary		10/685,252		BALAZICH ET AL.
		Examiner		Art Unit
		Jung Park		2619
Period fo	The MAILING DATE of this communication a r Reply	ppears on the cov	er sheet with the c	orrespondence address
A SHO WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REP CHEVER IS LONGER, FROM THE MAILING assions of time may be available under the provisions of 37 CFR of SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS C 1.136(a). In no event, ho of will apply and will expirate, cause the application	COMMUNICATION wever, may a reply be time of SIX (6) MONTHS from to become ABANDONE!	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status				
2a)□	Responsive to communication(s) filed on This action is FINAL . 2b) The Since this application is in condition for allow closed in accordance with the practice under	nis action is non-fi vance except for f	ormal matters, pro	-
Dispositi	on of Claims			
5)□ 6)⊠ 7)⊠ 8)□	Claim(s) <u>1-30</u> is/are pending in the application 4a) Of the above claim(s) is/are withdred Claim(s) is/are allowed. Claim(s) <u>1-11,13-23 and 25-30</u> is/are rejected Claim(s) <u>12 and 24</u> is/are objected to. Claim(s) are subject to restriction and the strict of the	rawn from conside		
	The specification is objected to by the Exami	ner		
10)⊠	The drawing(s) filed on is/are: a) and a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the	ccepted or b) one drawing(s) be he ection is required if	ld in abeyance. See the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119			
12) <u></u> a)∣	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a li	ents have been recents have been recents documents eau (PCT Rule 17	ceived. ceived in Application have been received .2(a)).	on No ed in this National Stage
2) Notice 3) Information	te of References Cited (PTO-892) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4) [5) [6) [Interview Summary Paper No(s)/Mail Da Notice of Informal P Other:	ate

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

2. Claims 1-11, 13-23, and 25-30 are rejected under 35 U.S.C. 102(e) as being anticipated by Yang et al. (US 2003/0233503, "Yang").

Regarding claim 1, Yang discloses a method of managing request groups of a communications environment, the method comprising:

- obtaining a plurality of request groups (multiple memory access requests from the multiple processors which are grouped together, see ¶.9 and ¶.11); and
- tracking, by hardware of the communications environment (relationship between processors, see fig.9 and ¶.53) and, a dependency between at least multiple request groups of the plurality of request groups (dependency between leading processors and tailing processors, see ¶.53).

Regarding claim 2, Yang discloses, "wherein the obtaining comprises grouping, by a communications processor of the communications environment (fig.9 and $\P.11$), a plurality of requests for a plurality of tasks into the plurality of request groups ($\P.9$ and $\P.11$)."

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Regarding claim 3, Yang discloses, "further comprising sending a response for a request group of the at least multiple request groups to a communications processor of the communications environment in an order indicated by the tracking (¶.9 and ¶.11)."

Regarding claim 4, Yang discloses, "wherein the communications processor is alleviated from determining order of responses (¶.53)."

Regarding claim 5, Yang discloses, "wherein the sending is facilitated by a memory response unit coupled to the communications processor, the memory response unit receiving the response from main memory (fig.4 & 9)."

Regarding claim 6, Yang discloses, "wherein the response is for at least one request of the request group, the at least one request being issued from the communications processor to a memory request unit coupled thereto, the memory request unit facilitating the sending of the at least one request to main memory (fig.9, ¶.9 and ¶.10)."

Regarding claim 7, Yang discloses, "wherein the dependency corresponds to an order in which one or more requests of the at least multiple request groups were issued from a communications processor of the communications environment (order of data, see ¶.9 and ¶.54)."

Regarding claim 8, Yang discloses, "wherein the hardware comprises a state data structure comprising at least one of a predecessor indicator specifying whether a

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request group of the at least multiple request groups has a predecessor and a successor indicator specifying whether the request group has a successor (leading and tailing processors, see ¶.53)."

Regarding claim 9, Yang discloses, "wherein the state data structure is indexed by a task id of the request group (group ID, see fig.9)."

Regarding claim 10, Yang discloses, "wherein the task id used to index into the state data structure is obtained from another data structure indexed by a tag, the tag identifying a read memory transaction corresponding to a request of the request group (tag marking unit and read, see fig.4 and ¶.54)."

Regarding claim 11, Yang discloses, "further comprising: determining, based on the tracking, that a response for a request group of the plurality of request groups is to be sent to a communications processor of the communications environment (fig.9 and ¶.54); checking, in response to being able to send the response, whether there are one or more successor request groups of the request group; and sending to the communications processor one or more responses for the one or more successor request groups, in response to the checking indicating there are one or more successor request groups (¶.53)."

Regarding claim 13, Yang discloses, "wherein the determining comprises ensuring that responses of any predecessor request groups of the request group have been sent to the communications processor (¶.53)."

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Regarding claim 14, it is a system claim corresponding to the method claim 1 and is therefore rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claims 15-23 and 25, they are claims corresponding to claims 1-3, 5-11, and 13, respectively and are therefore rejected for the similar reasons set forth in the rejection of the claims.

Regarding claim 26, it is a claim corresponding to claim 1 and is therefore rejected for the similar reasons set forth in the rejection of claim 1.

Regarding claim 27, it is a claim corresponding to claims 5 and 3 and is therefore rejected for the similar reasons set forth in the rejection of claims 5 and 3.

Regarding claims 28-30, they are claims corresponding to claims 6, 8, and 11, respectively and are therefore rejected for the similar reasons set forth in the rejection of the claims.

Allowable Subject Matter

 Claims 12 and 24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Application/Control Number:

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Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jung Park whose telephone number is 571-272-8565. The examiner can normally be reached on Mon-Fri during 6:15-3:45.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

リア Jung Park Patent Examiner

SUPERVISORY PATENT EXAMINER